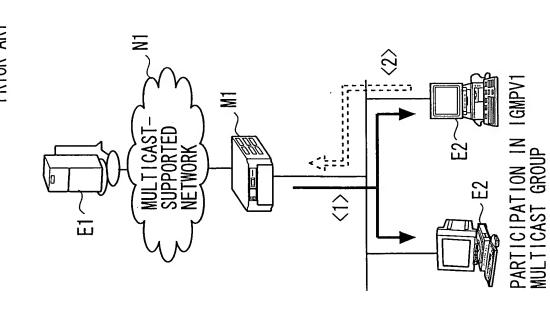


F/G. 2 PRIOR ART

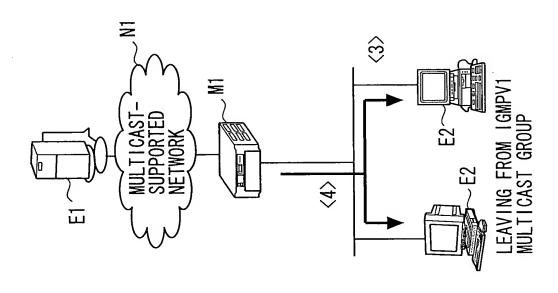
CLASS-D ADDRESS	APPL I CAT I ON
224. 0. 0. 0	RESERVED
224. 0. 0. 1~224. 0. 0. 255	ASSIGNMENT FOR ROUTING PROTOCOL ETC.
224. 0. 0. 1-ALL-SYSTEMS	
224. 0. 0. 2-ALL-ROUTERS	
224. O. O. 4-DVMRP ROUTERS	
224. 0. 0. 5-0SFP-ALL	
••	
•	
224. 0. 1. 0~238. 255. 255. 255	ASSIGNMENT FOR PUBLIC USE
224. 0. 1. 7-AUDIO NEWS	
224. 0. 1. 11-V01CE OF 1ETF MEETING	
224. 0. 1. 12-VIDEO OF IETF MEETING	
224. 0. 1. 16-MUSIC SERVICE	
• • •	
239. 0. 0. 0~239. 255. 255. 255	ASSIGNMENT FOR LOCAL SITE

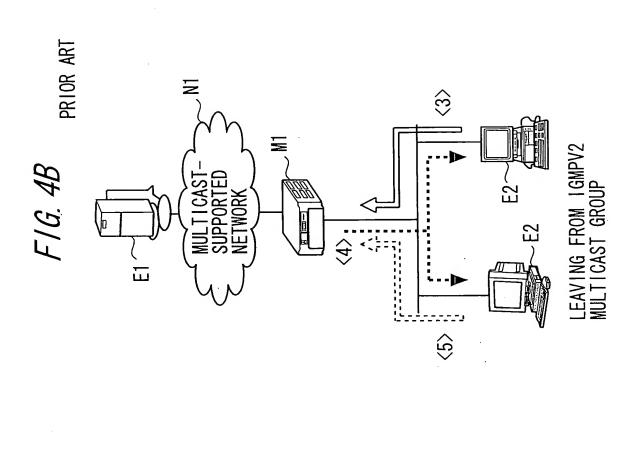
F16.34 PRIOR ART

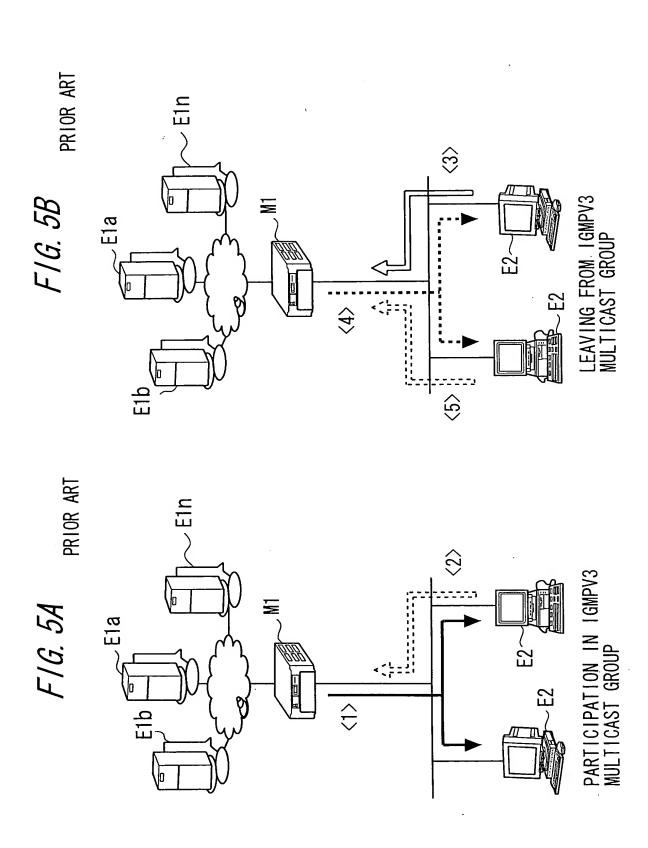


F16.3B

PRIOR ART

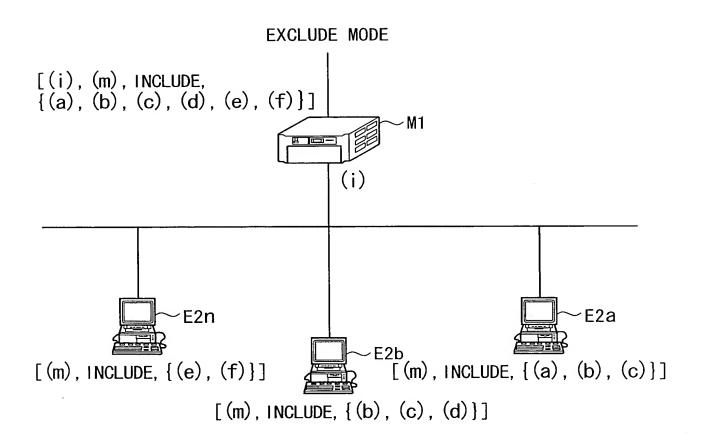






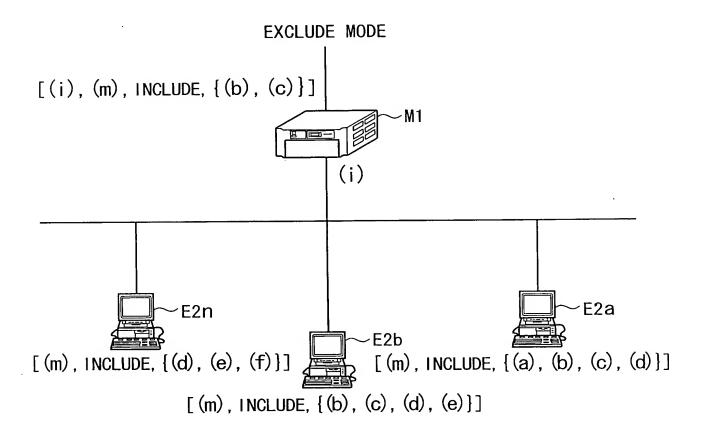
F/G. 6

PRIOR ART



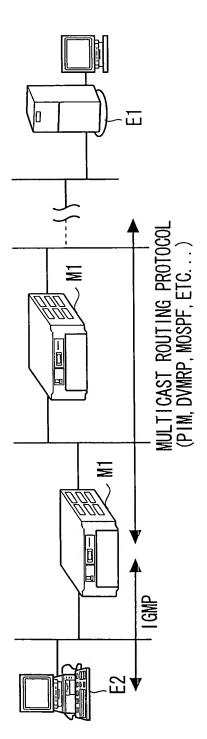
F/G. 7

PRIOR ART



F/G. 8

PRIOR ART

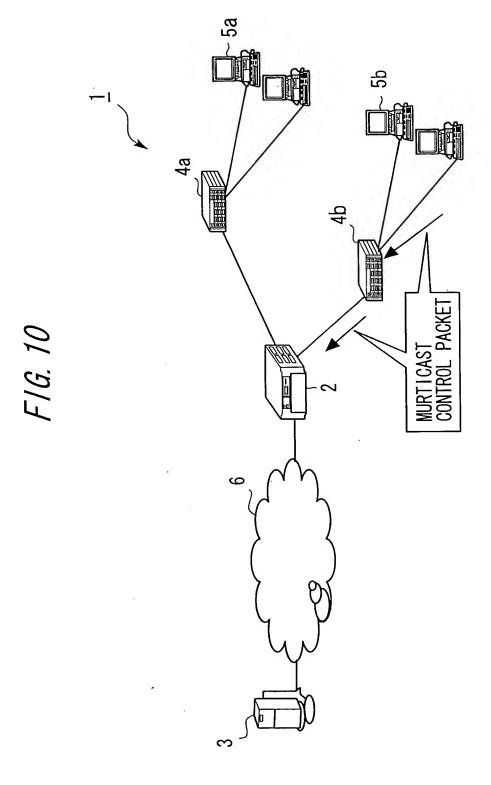


F/G. 9

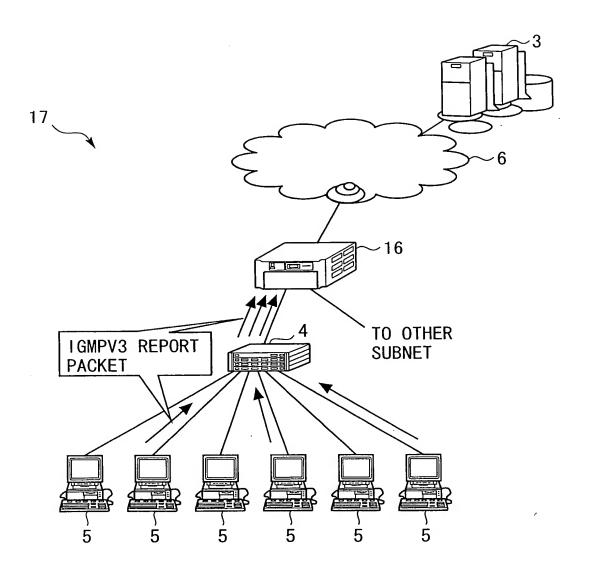
PRIOR ART

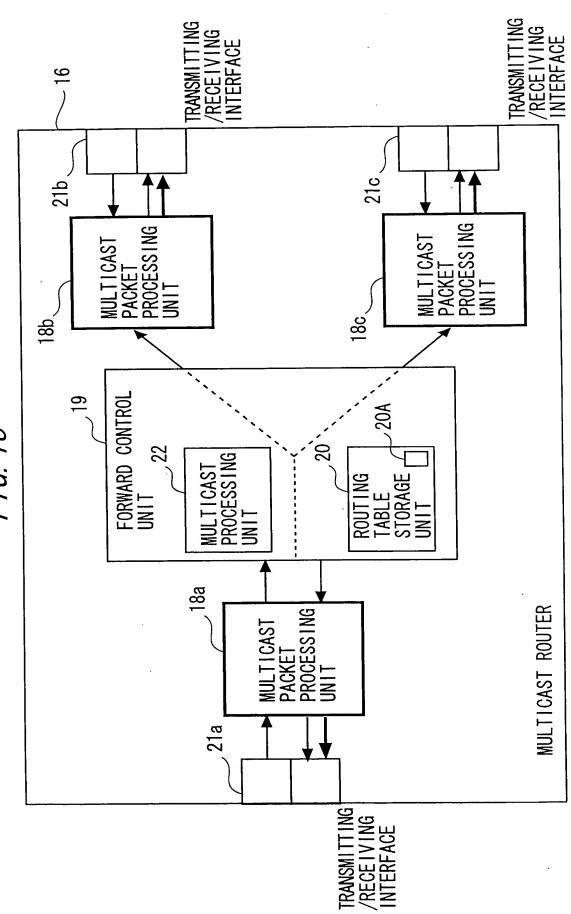
RFC1112

	UPPER LAYER
IP	SERVICE INTERFACE
IP	, I GMP
LOCAL	NETWORK SERVICE INTERFACE
	IP TO PHYSICAL ADDRESS MAPPING(e.g.ARP)
DATA LINK LAYER	
	PHYSICAL LAYER

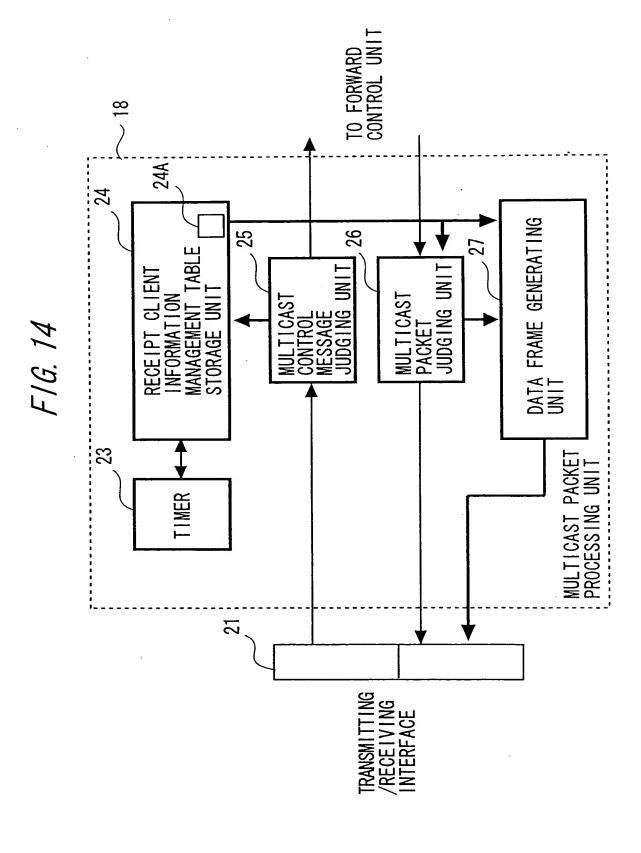


F/G. 12





F1G. 13



F1G. 15

24A	SS FILTER MODE	2 INCLUDE	3	4	65 INCLUDE	EXCLUDE		68 INCLUDE	2 EXCLUDE	5	9	27 EXCLUDE	38	EXCLUDE	2 INCLUDE		5
	SOURCE ADDRE	61. 143. 221. 2	61, 143, 221, 3	61. 143. 221. 4	201. 67. 113. 65	211. 67. 0. 3	211. 67. 0. 5	174. 67. 119. 68	61. 143. 221. 2	61, 143, 221, 5	61. 143. 221. 6	198. 12. 57. 227	198. 12. 57. 238	172. 0. 12. 5	61. 143. 221. 2	61. 143. 221. 3	61. 143. 221. 5
	MULTICAST ADDRESS	238. 0. 0. 123			238. 28. 0. 33	238. 225. 13. 33		239. 128. 0. 23	238. 0. 0. 123			239. 12. 67. 192		238. 125. 65. 1	239. 128. 0. 123		
	CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	XX:XX:XX:12:34				XX:XX:XX:XX:XX		XX:XX:XX:90:12	XX:XX:XX:34:56					06:87:XX:XX:XX:XX	XX:XX:XX:01:23		
	ENTRY NUMBER CLIENT ADDRESS	210. 23. 171. aa				210. 23. 171. bb		210. 23. 171. cc	210. 23. 171. dd					210. 23. 171. ee	210. 23. 171. ff		
	ENTRY NUMBER	-				2	-	3	4					5	9		

F/G. 16

IGMP MESSAGE FORMAT

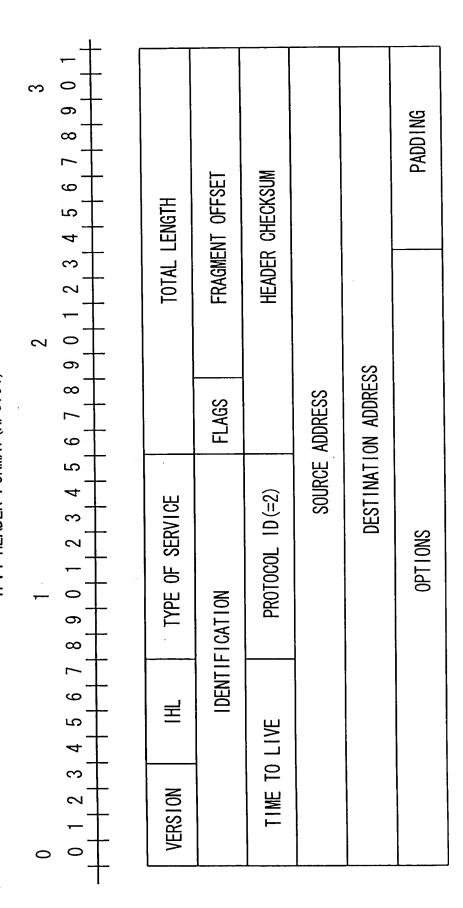
FGS IGMP MESSAGE IP HEADER MAC HEADER (14BYTE) F1G. 17

MLDV2 MESSAGE FORMAT

MLDV2 MESSAGE IPV6 HEADER MAC HEADER (14BYTE)

FCS

IPV4 HEADER FORMAT (RFC791)



F/G. 19

VERSION	TRAFFIC CLASS		FLOW LABE	L
PAYLOA	D LENGTH		NEXT HEADER	HOP LIMIT
		JRCE AD	DDRESS	
	DESTIN		ADDRESS	

IPV6 HEADER FORMAT (RFC2460)

F16. 20

۲							
	NUMBER OF SOURCES (N)	ADDRESS	DRESS[1]	DRESS [N]	ĺ	AUXILIARY DATA	
	AUX DATA LENGTH	MULTICAST ADDRESS	SOURCE ADDRESS[1] SOURCE ADDRESS[2]	SOURCE ADDRESS[N]		AUXILIA	
	RECORD TYPE						
2 6789012345678901	CHECKSUM	NUMBER OF GROUP RECORDS (M)	:CORD[1]	100 L91	70010		CORD [M]
0 012345678901234567	TYPE=0x22 RESERVED	RESERVED	GROUP RECORD[1]	LOJUBU BECOBULO			GROUP RECORD[M]

IGMPV3 REPORT MESSAGE FORMAT

F16.21

		RECORD TYPE	ie.
2 3	01234567890123456789012345678901	CHECKSUM	NUMBER OF MULTICAST ADDRESS RECORDS(M)
•	789012345	RESERVED	RVED
0	01234567	TYPE=136	RESER

1 H 4 C 2011	D AUX DAIA NUMBER OF SOURCES (N)	MULTICAST ADDRESS	SOURCE ADDRESS[1]	SOURCE ADDRESS[2]	 	SOURCE ADDRESS[N]		AUXILIARY DATA
	RECORD TYPE	12-						
r	$\overline{}$	T ₁			 			
	CHECKSUM	NUMBER OF MULTICAST	ADDRESS RECORDS (M)	MULTICAST ADDRESS RECORD[1]		MIII TICAST APPESS DECODDIS	IESS NEGOND[2]	
+ + + + + + + + + + + + + + + + + + + +	136 RESERVED	RVED		FICAST ADDR		AUUA TOACI	I LAS I ADUN	
+	:136	RESERVED		MUL				

MULTICAST ADDRESS RECORD[M]

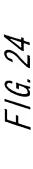
MLDV2 REPORT MESSAGE FORMAT

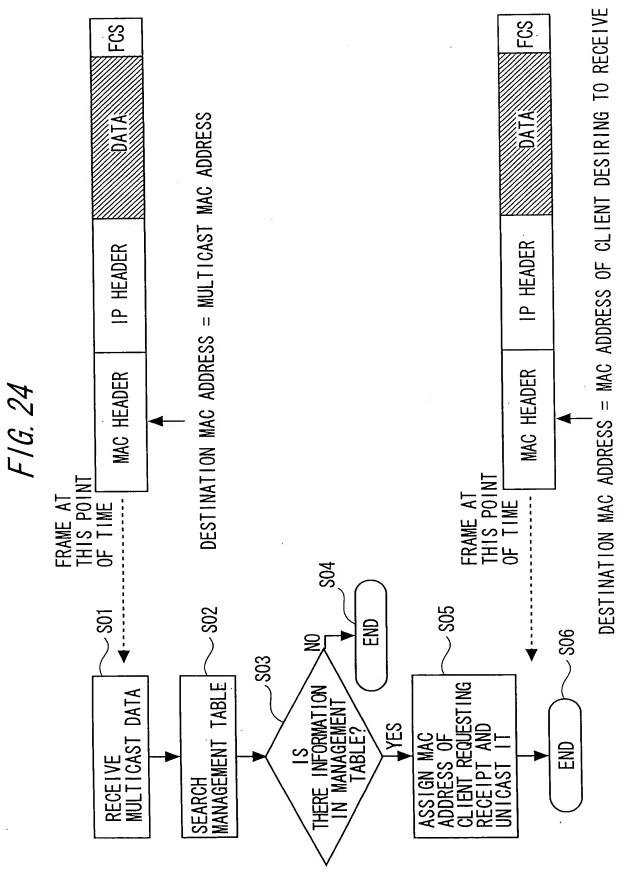
F1G. 22

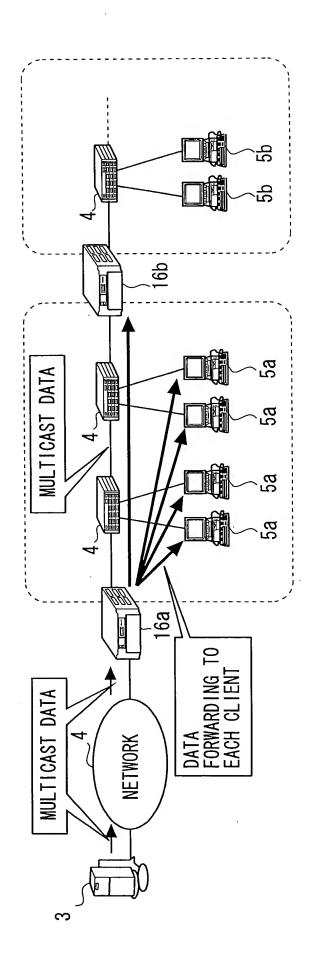
Г	TITL			Т	
. 24A	CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	•	• •	•	INCLUDE
	ADDRESS	•	•	•	61. 143. 221. 38
	SOURCE				61.14
	ADDRESS.				. 222
	MULTICAST	•	•	•	238. 0. 2. 222
	ADDRESS N				XX:XX:XX:45:67
	MAC	•	•	•	(X : XX
	CLIENT				: XX : XX
	ADDRESS		•		171. gg
	CL I ENT				210. 23. 171. gg
	NTRY NUMBER CLIENT ADDRESS				
	ENTRY		•	•	7

F1G. 23

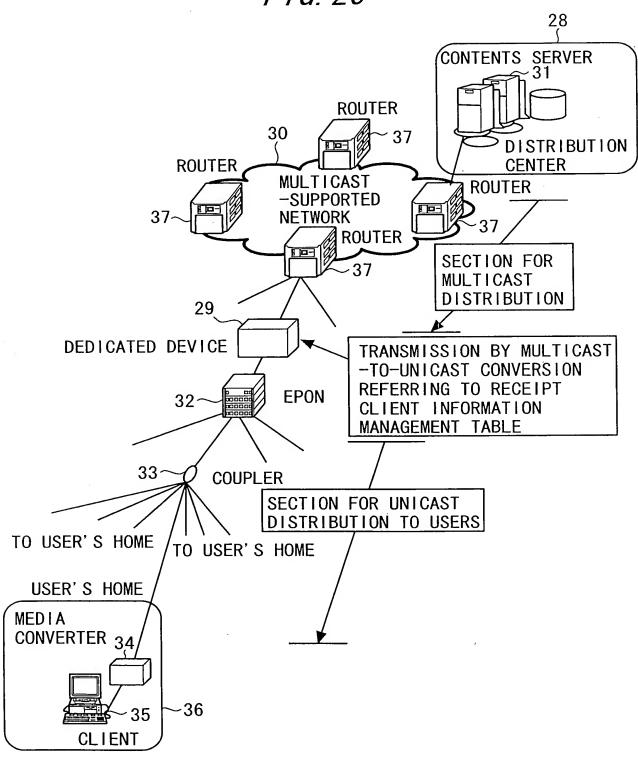
_					
_24A	FILTER MODE	EXCLUDE	INCLUDE	• •	• •
	SOURCE ADDRESS	61. 143. 221. 2 EXCLUDE	201. 67. 113. 65 INCLUDE	•	• •
	MULTICAST ADDRESS 8		238. 28. 0. 33	•	• •
	CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	XX:XX:XX:XX:12:34 238.0.0.123		٠	• •
	ENTRY NUMBER CLIENT ADDRESS	210. 23. 171. aa		•	• •
	/ NUMBER CL	210			
	ENTR	-	<u>-</u>	•	• •

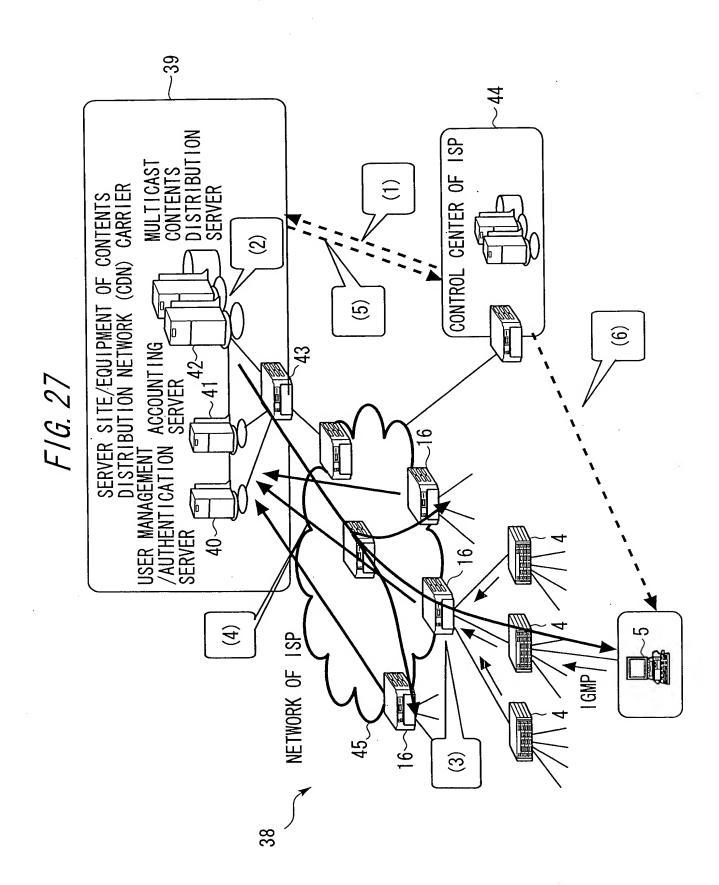






F/G. 26





F/G. 28

		USER MANAGEMENT TABLE		46
USER NAME	USER ADDRESS (CLIENT ADDRESS)	RECEIPT CONTENT ADDRESS (MULTICAST ADDRESS)	RECEPTION STARTING TIME	RECEPTION ENDING TIME
	XXX. XX. X. 111	238. 0. a. aaa	111	T12
		238. 0. a. bbb	T13	T14
	xxx. xx. x. 112	238. 0. a. bbb	121	122
	xxx. xx. x. 113	238. 0. a. aaa	T31	132
		238. 0. a. bbb	T33	T34
		238. 0. a. ccc	T35	136
	• •	• •	• •	• 0
	•	•	•	•
	٠	•	•	•
	• •	• •	• •	• •
	XXX. XX. X. 124	238. 0. a. aaa	1241	1242
	xxx. xx. x. 125	238. 0. a. bbb	1251	T252

F16. 29

